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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,366	03/25/2004	Benyahia Nasli-Bakir		4753
29556	7590	02/22/2007		EXAMINER
WHITE, REDWAY AND BROWN LLP 1217 KING STREET ALEXANDRIA, VA 22314			CHAN, SING P	
			ART UNIT	PAPER NUMBER
			1734	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		02/22/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/808,366	NASLI-BAKIR ET AL.	
	Examiner	Art Unit	
	Sing P. Chan	1734	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on November 24, 2006.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-27 and 31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-27 and 31 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____ .	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5, 7-9, 15-17, 19-21, 27, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art in view of Cannon et al (U.S. 4,376,807).

Regarding claims 1, 8, 15, 20, and 27, the admitted prior art discloses a method of forming a wooden beam. The method includes wooden lamellae, applying a curable adhesive system to the wooden lamellae, assembling the wooden lamellae into an assembly, pressing the assembly under heat, curing the adhesive system, and planing the surface transversely to the plane of the adhesive application to remove excess adhesive and unevenness. (See Specification, Page 1, lines 16-26) The admitted prior art is silent as treating one or more planed side with treating substances reactive to one or more gaseous substances. However, treating one or more sides of a wooden panel with treating substances is well known and conventional as shown for example by Cannon et al. Cannon et al discloses a method of treating formaldehyde laden wood panels to reduce excess formaldehyde. The method includes providing the laminated wooden panel with formaldehyde-based resin, applying an aqueous solution of an ammonium salt such ammonium bicarbonate onto at least one side of the panel and allow ammonia gas to react with the free formaldehyde. (Col 5, lines 1-60)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply an aqueous solution of ammonium salt to at least one surface of a laminated wooden panel with the adhesive being formaldehyde-based resin as disclosed by Cannon et al in the method of admitted prior art to provide a treatment method for free formaldehyde that adapted well to high volume treatment and handling of the flat line wood panels and does not require investment of off-line treatment and handling facilities or equipment. (See Cannon et al, Col 2, lines 27-41)

Regarding claims 2-5, 7, 9, 16, 17, 19, and 21, the admitted prior discloses gaseous substances including formaldehyde, terpenes, aldehydes, and isocyanates are emitted from the exposed glue lines and from the planed surface. (See Specification, Page 1, lines 7-26)

Regarding claim 31, the admitted prior art discloses a method of forming a wooden beam. The method includes wooden lamellae, applying a curable adhesive system to the wooden lamellae, assembling the wooden lamellae into an assembly, pressing the assembly under heat, curing the adhesive system, and planing the surface transversely to the plane of the adhesive application to remove excess adhesive and unevenness. (See Specification, Page 1, lines 16-26) The admitted prior art is silent as treating one or more planed side with treating substances reactive to one or more gaseous substances. However, treating one or more sides of a wooden panel with treating substances is well known and conventional as shown for example by Cannon et al. Cannon et al discloses a method of treating formaldehyde laden wood panels to reduce excess formaldehyde. The method includes providing the laminated

Art Unit: 1734

wooden panel with formaldehyde-based resin, applying an aqueous solution of an ammonium salt such as ammonium bicarbonate onto at least one side of the panel using roller coating, curtain coating, or spray coating and allow ammonia gas to react with the free formaldehyde. (Col 5, lines 1-60) The examiner is taking the position if the aqueous solution is applied by a curtain coating method, the curtain coating material would come in contact with the glue line of the laminate and therefore, would coat the glue line as well.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply an aqueous solution of ammonium salt to at least one surface of a laminated wooden panel with the adhesive being formaldehyde-based resin as disclosed by Cannon et al in the method of admitted prior art to provide a treatment method for free formaldehyde that adapted well to high volume treatment and handling of the flat line wood panels and does not require investment of off-line treatment and handling facilities or equipment. (See Cannon et al, Col 2, lines 27-41)

3. Claims 6, 10-14, 18, 22-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art in view of Cannon et al (U.S. 4,376,807) as applied to claims 1 and 15 above, and further in view of Rohringer et al (GB 2,062,039).

Regarding claims 6, 10, 11, 14, 18, 22, 23, and 26, the admitted prior art as modified by Cannon et al is silent as to one treating substance is urea or a urea derivative, unsaturated aldehyde or an alcohol, or a polyvinyl alcohol dispersion. However, providing a wood treatment composition with one treating substance is urea or a urea

derivative, unsaturated aldehyde or an alcohol, or a polyvinyl alcohol dispersion is well known and conventional as shown for example by Rohringer et al. Rohringer et al discloses a method for treating a timber with flameproof compound. The method includes providing a timber, providing a treating compound comprising component (a) of flameproof agent (Page 1, line 26) such as ammonium salts (Page 1, lines 67-74), component (b) of at least one fixing agent (Page 1, line 27), such as urea, cyanamides, and/or polyvinyl alcohols (Page 1, lines 85-118), component (c) of at least one blowing agent (Page 1, line 28), such as urea (Page 2, lines 97-115).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to treat the wood material with the flameproof composition, which comprising one treating substances is urea or a urea derivative, unsaturated aldehyde or an alcohol, or a polyvinyl alcohol dispersion as disclosed by Rohringer et al in the method of admitted prior art as modified by Cannon et al to provide a flameproof treatment for wood or timber with a lower energy costs. (See Rohringer et al, Page 1, lines 14-19)

Regarding claims 12, 13, 24, and 25, The admitted prior art as modified above is silent as to the treating composition includes 1 to about 80% by weight of one or more treating substances and 0.02 to 10% by weight of a polymer. However, providing the components in the range such as 20 to 300 g/l of component (a), 0 to 60 g/l of component (b), and 0 to 150 g/l of component (c) is well known and conventional as shown for example by Rohringer et al. Rohringer et al discloses the composition

comprising 20 to 300 g/l of component (a), 0 to 60 g/l of component (b), and 0 to 150 g/l of component (c), which is within the range as recited. (Page 3, lines 3-8)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the treating composition such as 20 to 300 g/l of component (a), 0 to 60 g/l of component (b), and 0 to 150 g/l of component (c) as disclosed by Rohringer et al in the method of admitted prior art as modified by Cannon et al to provide a flameproof treatment for wood or timber with a lower energy costs.

(See Rohringer et al, Page 1, lines 14-19)

4. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art in view of Park (U.S. 4,678,686).

The admitted prior art discloses a method of forming a wooden beam. The method includes wooden lamellae, applying a curable adhesive system to the wooden lamellae, assembling the wooden lamellae into an assembly, pressing the assembly under heat, curing the adhesive system, and planing the surface transversely to the plane of the adhesive application to remove excess adhesive and unevenness. (See Specification, Page 1, lines 16-26) The admitted prior art is silent as treating one or more planed side with treating substances reactive to one or more gaseous substances. However, treating one or more planed side with treating substances reactive to one or more gaseous substances is well known and conventional as shown for example by Park. Park discloses a method of forming formaldehyde-containing wood panel. The method includes adhering wood panels such as plywood and particleboard panels together using an urea-formaldehyde resin adhesive, which the panels may emit free

vaporous formaldehyde at an unacceptable level (Col 1, lines 24-30), stacking the panels together with spacing (Col 2, lines 46-65), placing the stacked panels in a pressure vessel, evacuate the vessel, applying a mixture of ammonia and air to the vessel to convert the free formaldehyde within the wood pores or interstices to a stable hexamine (Col 3, lines 3-26). The examiner is taking the position the laminates in the stack include the glue line and the application of ammonia and air in the application vessel at superatmospheric pressure (Col 3, lines 30-34) will react with all parts of the wood laminates including the glue lines.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to treat the wood laminates such wood panels bonded together with urea-formaldehyde resin adhesive by placing the laminate in a pressure vessel, applying a mixture of ammonia and air to the vessel to convert the free formaldehyde emission to a stable hexamine as disclosed by Park in the method of admitted prior art to provide an improved process of rapidly and efficiently treating panels for controlling emissions in the panels. (See Park, Col 2, lines 3-8)

Response to Arguments

5. Applicant's arguments filed November 24, 2006 have been fully considered but they are not persuasive.
6. In response to applicant's argument of Cannon does not discloses treating the edge having a glue line to reduce the emission of formaldehyde, the examiner disagrees, since Cannon does recite the coating technique includes curtain coating, which provide a flow of coating material in a continuous sheet and the front edge of the

panel, which includes a glue line, would come in contact with the flow of material and therefore, would be coated as the panel passed under the curtain coater. (See Cannon, Col 5, lines 21-24) Also, applicant has cited Cannon as a primary reference but the examiner relied on the admitted prior art as the primary reference.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sing P. Chan whose telephone number is 571-272-1225. The examiner can normally be reached on Monday-Thursday 7:30AM-11:00AM and 12:00PM-4:00PM.

Art Unit: 1734

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher A. Fiorilla can be reached on 571-272-1187. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chan Sing Po

SPC

Linda L Gray
LINDA GRAY
PRIMARY EXAMINER